

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF012519\
 Data File : VF061523.D
 Acq On : 25 Jan 2019 16:21
 Operator : VA/AP
 Sample : K1238-11RE
 Misc : 5.85g/5mL/MSVOA-F/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Jan 28 00:08:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F011519S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 16 04:51:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.86	168	203535	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.59	114	397309	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.78	117	342550	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	12.55	152	162155	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.84	65	99689	39.67	ug/l	0.01
Spiked Amount			Recovery	=	79.34%	
35) Dibromofluoromethane	4.11	113	115315	36.78	ug/l	0.01
Spiked Amount			Recovery	=	73.56%	
50) Toluene-d8	7.56	98	283901	33.05	ug/l	0.01
Spiked Amount			Recovery	=	66.10%	
62) 4-Bromofluorobenzene	11.41	95	133184	33.19	ug/l	0.01
Spiked Amount			Recovery	=	66.38%	

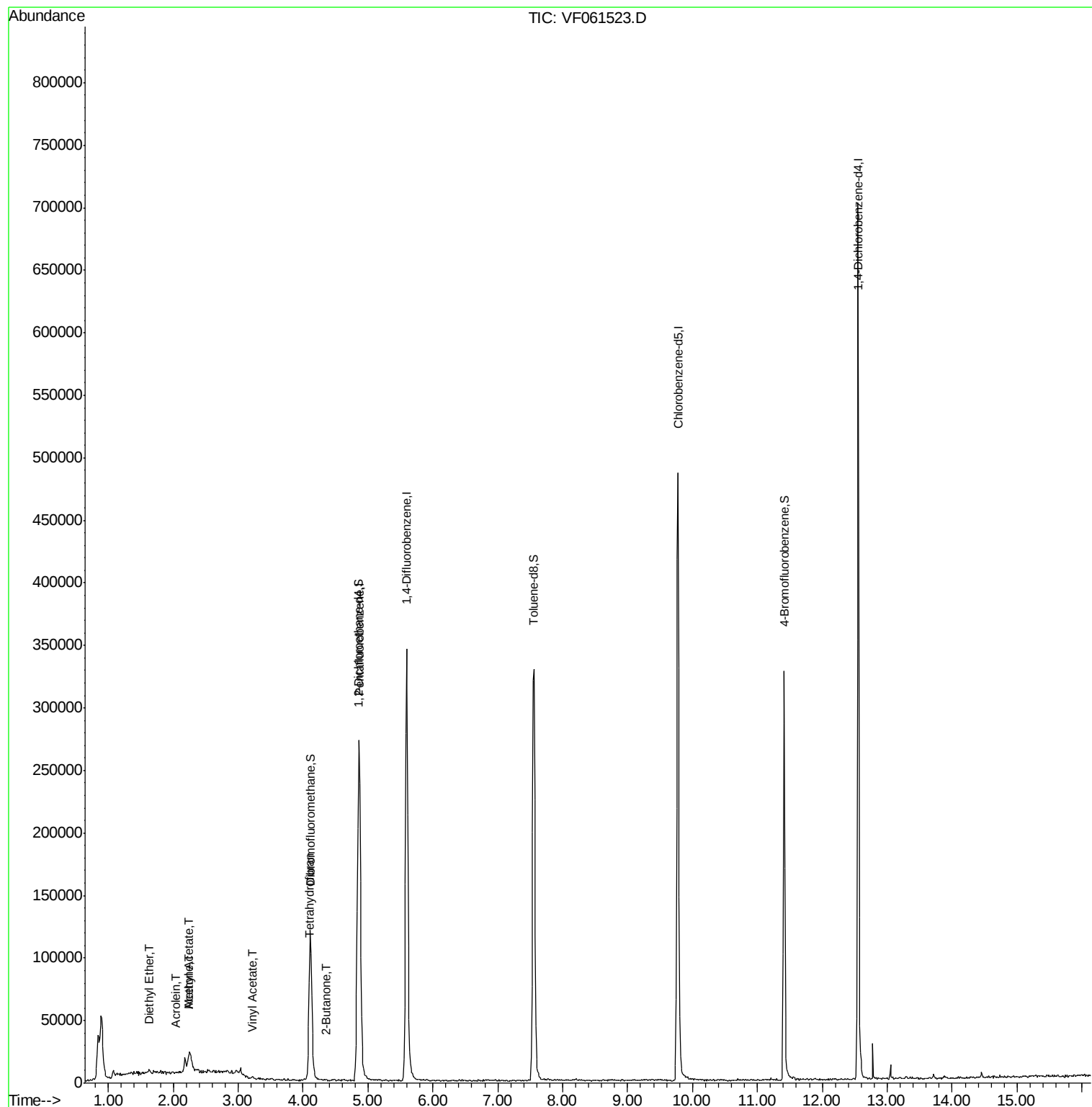
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	1.63	74	1004	1.545	ug/l	62
13) Acrolein	2.04	56	665	17.295	ug/l	84
14) Allyl chloride	2.05	41	312	Below Cal		87
16) Acetone	2.23	43	13487	26.754	ug/l #	83
18) Methyl Acetate	2.23	43	13487	13.490	ug/l #	61
23) Vinyl Acetate	3.22	43	1176	3.603	ug/l #	78
25) 2-Butanone	4.34	43	1471	1.755	ug/l #	57
29) Tetrahydrofuran	4.09	42	606	1.679	ug/l #	75
49) 1,4-Dioxane	6.72	88	62	Below Cal	#	36

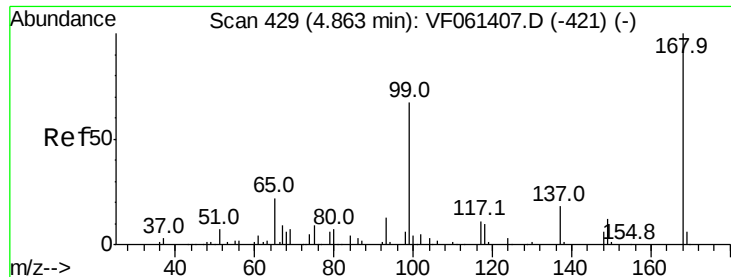
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Jan 16 04:51:59 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.86 min Scan# 429

Delta R.T. 0.00 min

Lab File: VF061523.D

Acq: 25 Jan 2019 16:21

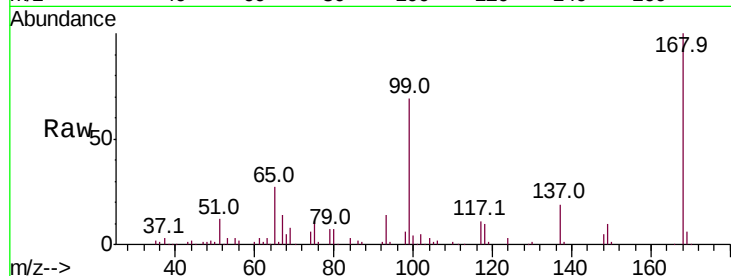
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 203535

Ion Ratio Lower Upper

168 100

99 69.2 53.5 80.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.86

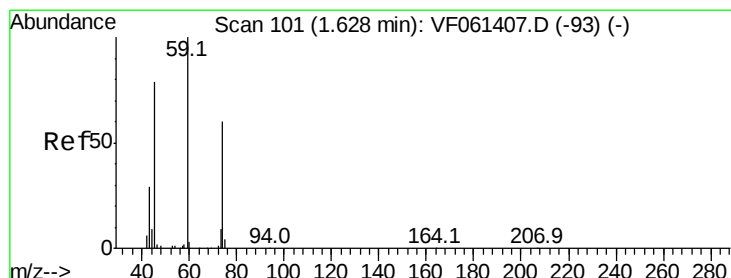
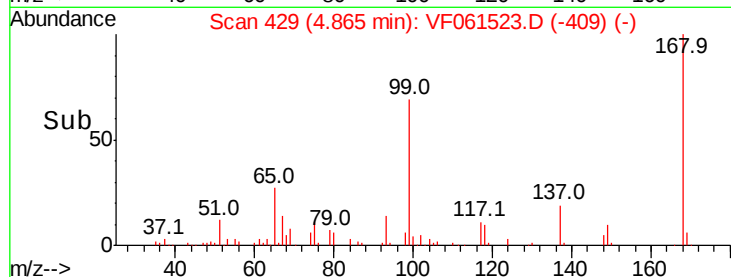
60000

40000

20000

0

Time--> 4.70 4.80 4.90 5.00



#8

Diethyl Ether

Concen: 1.545 ug/l

RT: 1.63 min Scan# 101

Delta R.T. 0.00 min

Lab File: VF061523.D

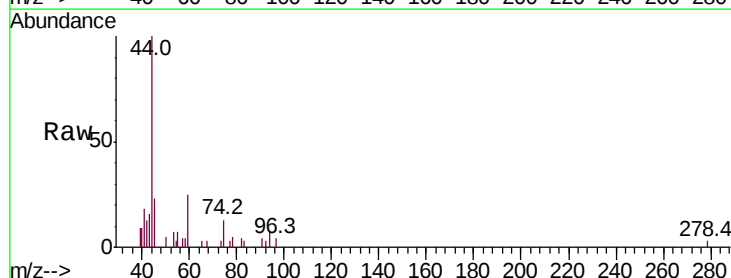
Acq: 25 Jan 2019 16:21

Tgt Ion: 74 Resp: 1004

Ion Ratio Lower Upper

74 100

45 176.0 65.8 197.5



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0

1000

800

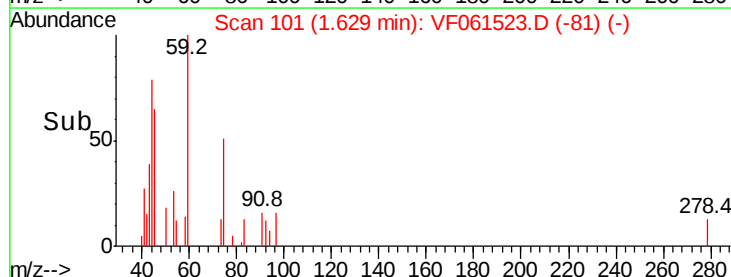
600

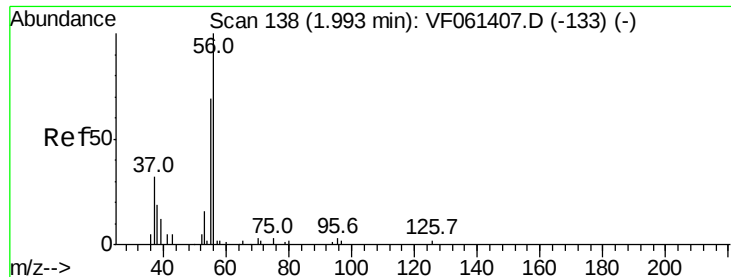
400

200

0

Time--> 1.60 1.65





#13

Acrolein

Concen: 17.295 ug/l

RT: 2.04 min Scan# 143

Delta R.T. 0.05 min

Lab File: VF061523.D

Acq: 25 Jan 2019 16:21

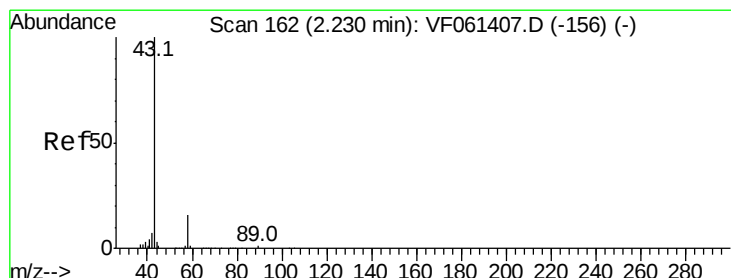
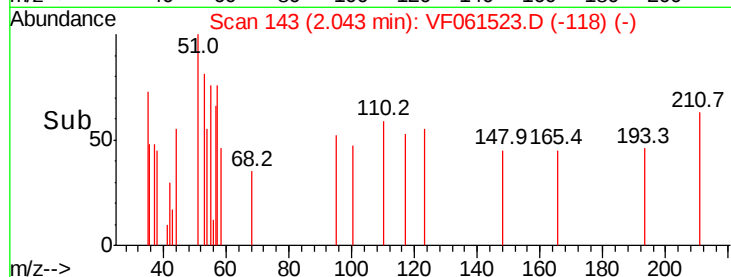
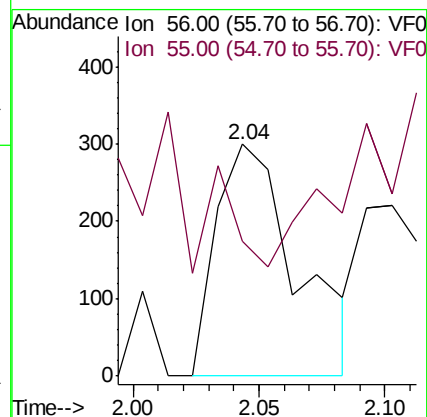
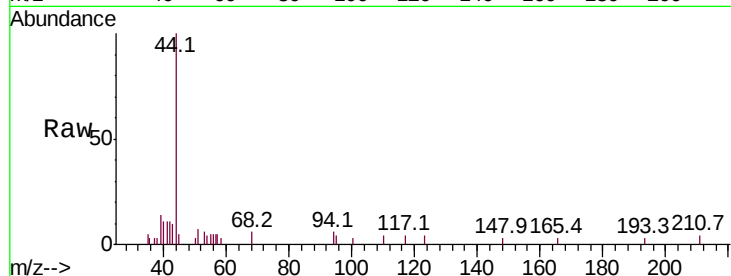
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 56 Resp: 665

Ion Ratio Lower Upper

56 100

55 58.3 57.5 86.3



#16

Acetone

Concen: 26.754 ug/l

RT: 2.23 min Scan# 162

Delta R.T. 0.00 min

Lab File: VF061523.D

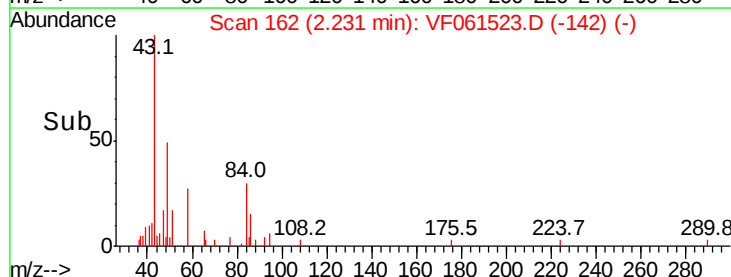
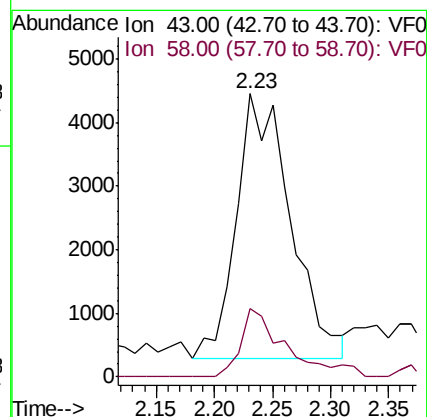
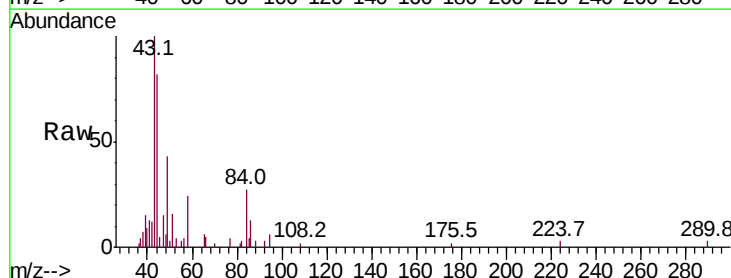
Acq: 25 Jan 2019 16:21

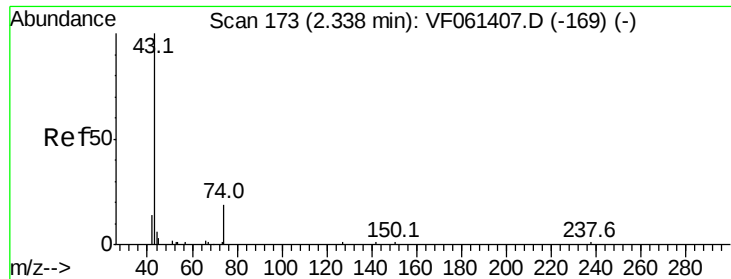
Tgt Ion: 43 Resp: 13487

Ion Ratio Lower Upper

43 100

58 24.0 13.3 19.9#

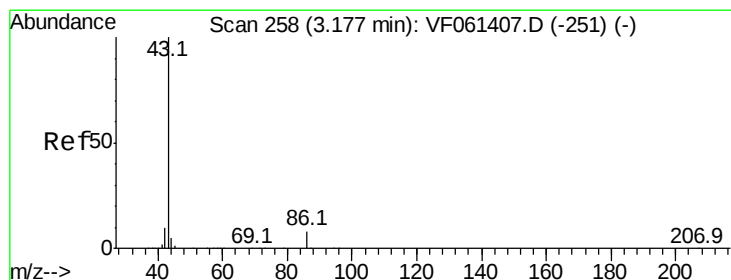
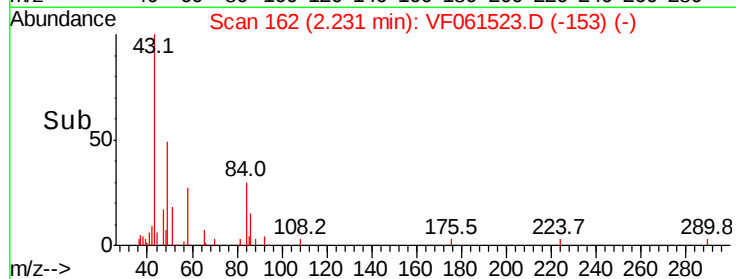
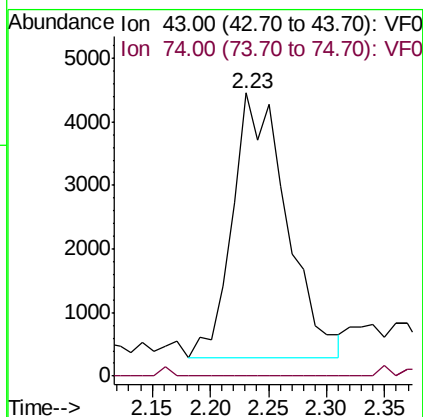
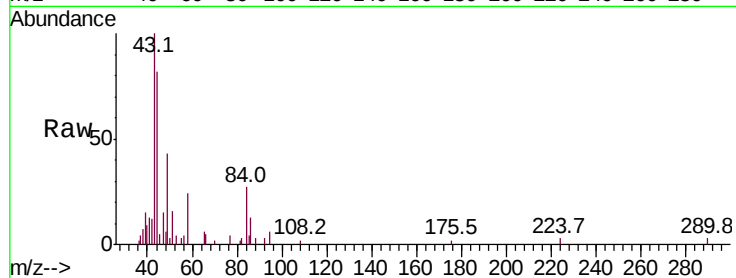




#18
Methvl Acetate
Concen: 13.490 ug/l
RT: 2.23 min Scan# 162
Delta R.T. -0.11 min
Lab File: VF061523.D
Acq: 25 Jan 2019 16:21

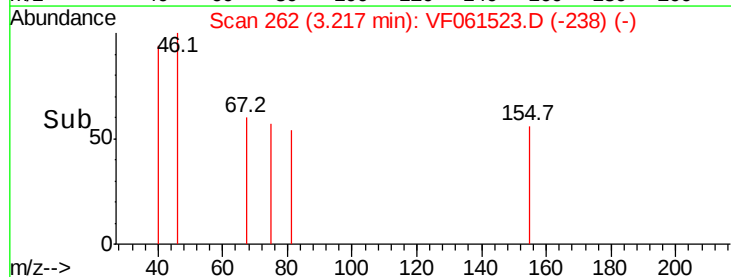
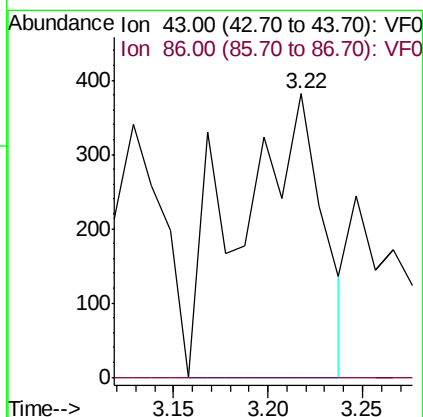
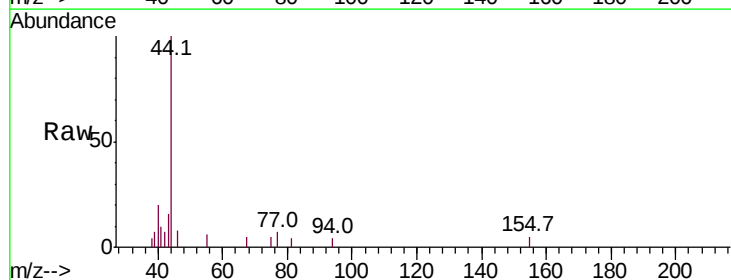
Instrument :
MSVOA_F
ClientSampleId :

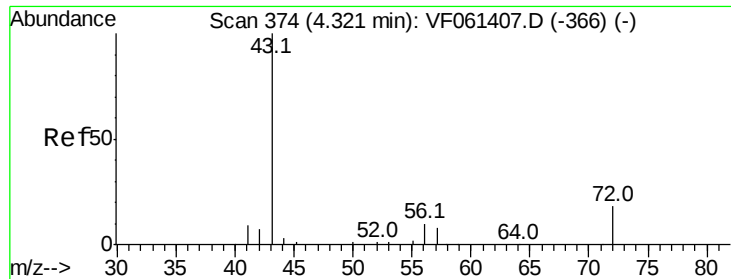
Tot Ion: 43 Resp: 13487
Ion Ratio Lower Upper
43 100
74 0.0 13.4 20.0#



#23
Vinyl Acetate
Concen: 3.603 ug/l
RT: 3.22 min Scan# 262
Delta R.T. 0.04 min
Lab File: VF061523.D
Acq: 25 Jan 2019 16:21

Tgt Ion: 43 Resp: 1176
Ion Ratio Lower Upper
43 100
86 0.0 6.2 9.4#





#25

2-Butanone

Concen: 1.755 ug/l

RT: 4.34 min Scan# 376

Delta R.T. 0.02 min

Lab File: VF061523.D

Acq: 25 Jan 2019 16:21

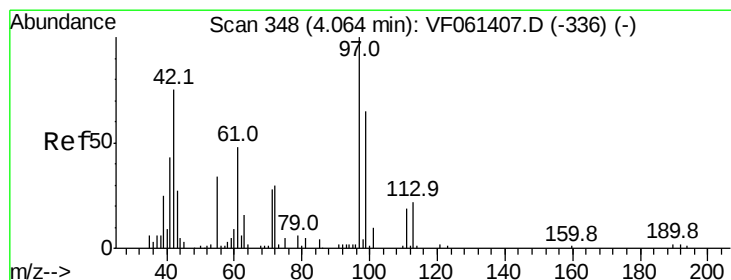
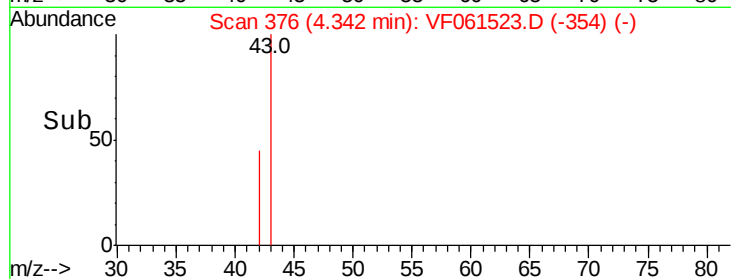
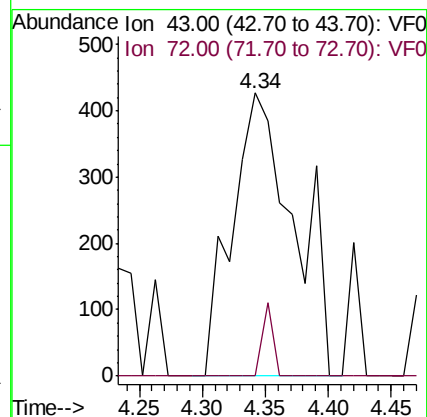
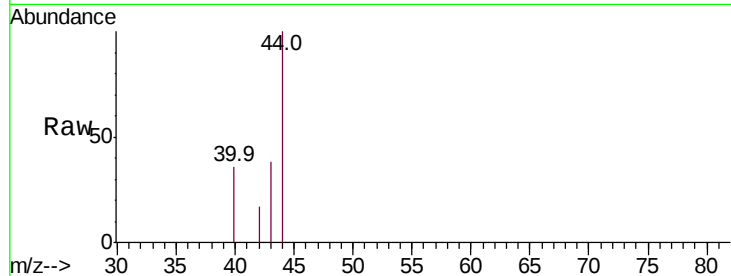
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 1471

Ion Ratio Lower Upper

43 100

72 0.0 15.8 23.6#



#29

Tetrahydrofuran

Concen: 1.679 ug/l

RT: 4.09 min Scan# 350

Delta R.T. 0.02 min

Lab File: VF061523.D

Acq: 25 Jan 2019 16:21

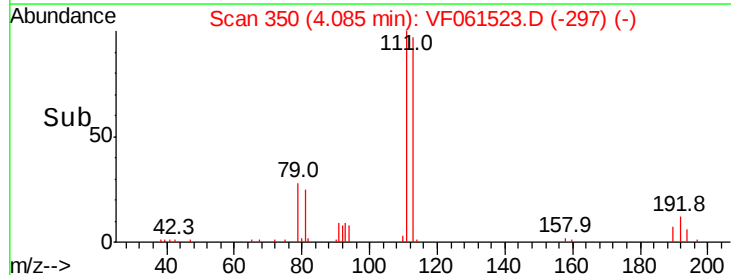
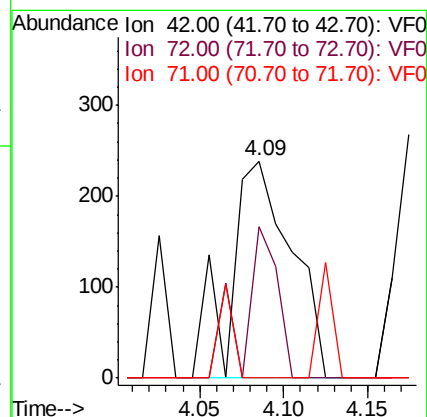
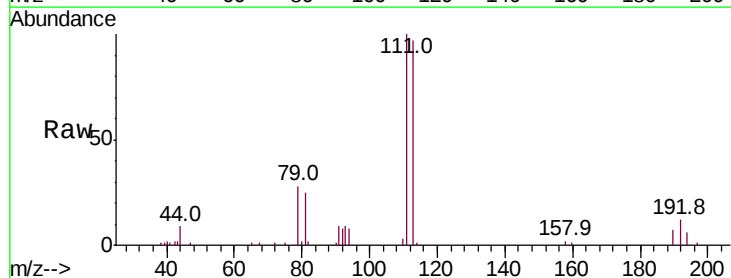
Tgt Ion: 42 Resp: 606

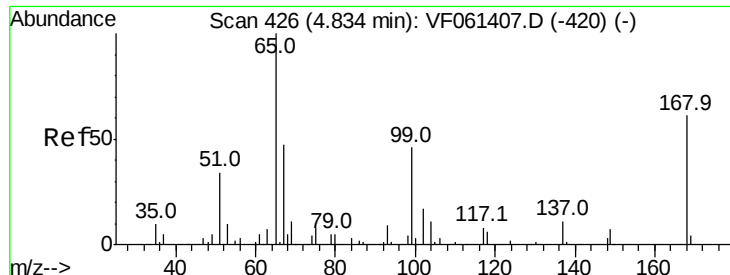
Ion Ratio Lower Upper

42 100

72 38.4 28.9 43.3

71 10.1 29.6 44.4#





#33

1,2-Dichloroethane-d4

Concen: 39.671 ug/l

RT: 4.84 min Scan# 427

Delta R.T. 0.01 min

Lab File: VF061523.D

Acq: 25 Jan 2019 16:21

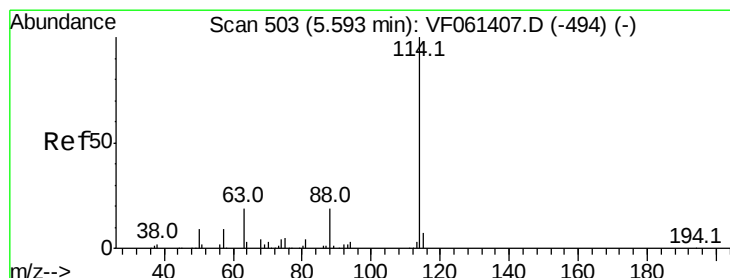
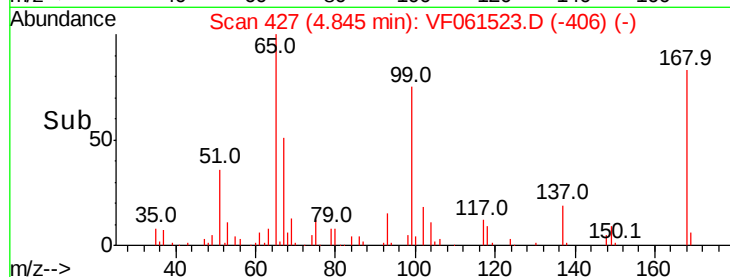
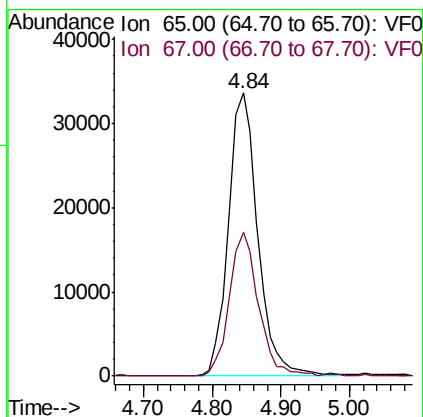
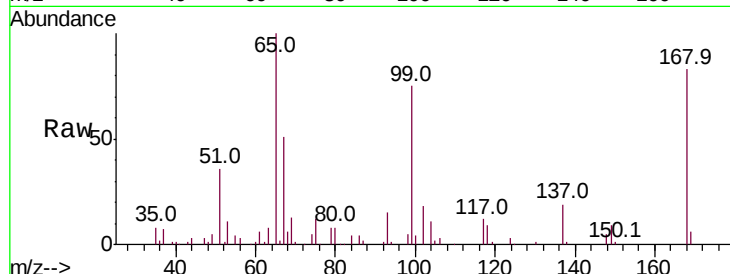
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 65 Resp: 99689

Ion Ratio Lower Upper

65 100

67 50.7 0.0 99.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.59 min Scan# 503

Delta R.T. 0.00 min

Lab File: VF061523.D

Acq: 25 Jan 2019 16:21

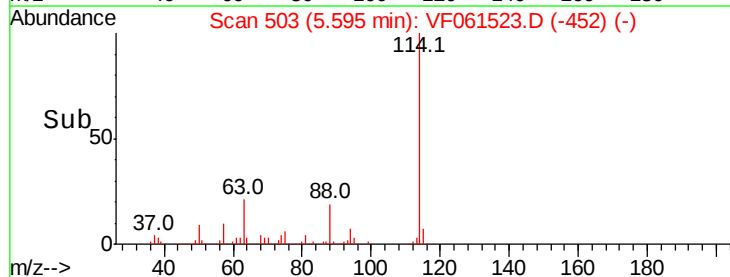
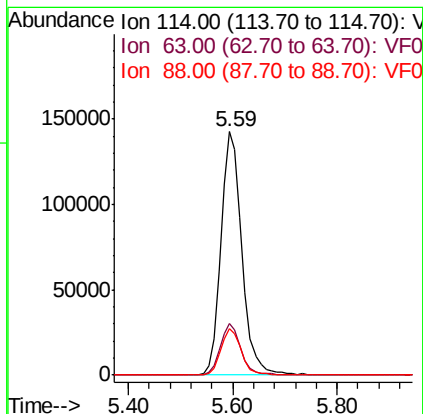
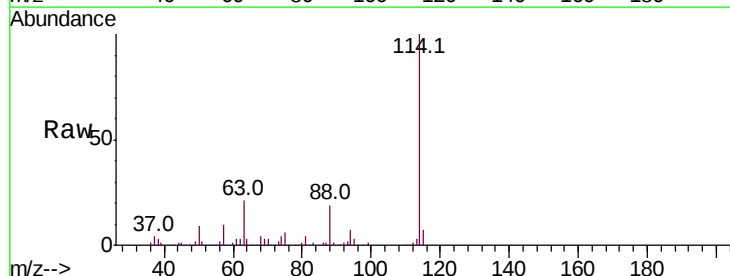
Tgt Ion: 114 Resp: 397309

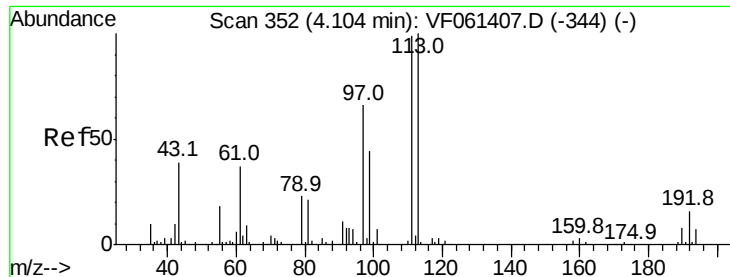
Ion Ratio Lower Upper

114 100

63 21.0 0.0 39.0

88 19.0 0.0 37.4

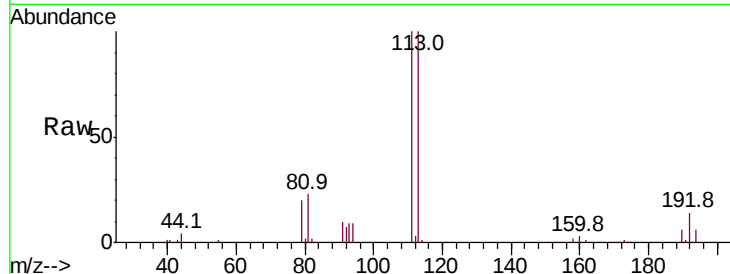




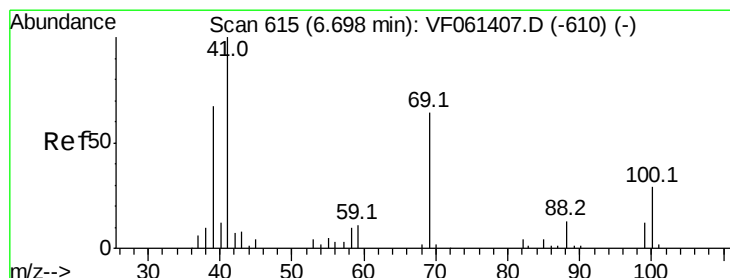
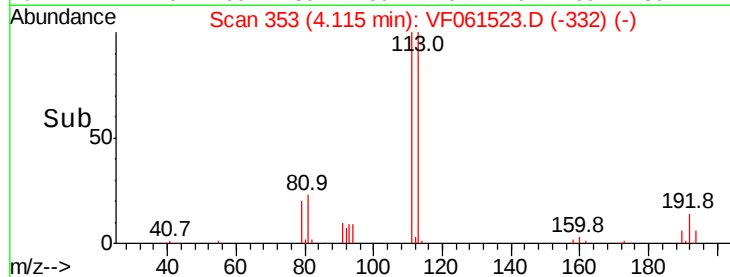
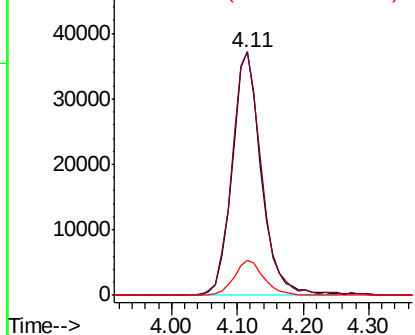
#35
 Dibromofluoromethane
 Concen: 36.782 ug/l
 RT: 4.11 min Scan# 353
 Delta R.T. 0.01 min
 Lab File: VF061523.D
 Acq: 25 Jan 2019 16:21

Instrument :
 MSVOA_F
 ClientSampled :

Tot Ion:113 Resp: 115315
 Ion Ratio Lower Upper
 113 100
 111 100.0 79.4 119.0
 192 14.5 12.4 18.6

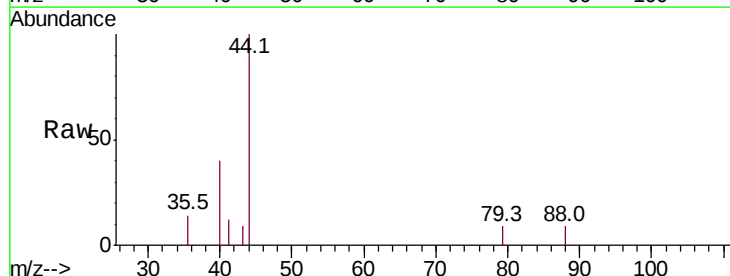


Abundance Ion 113.00 (112.70 to 113.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 192.00 (191.70 to 192.70): V

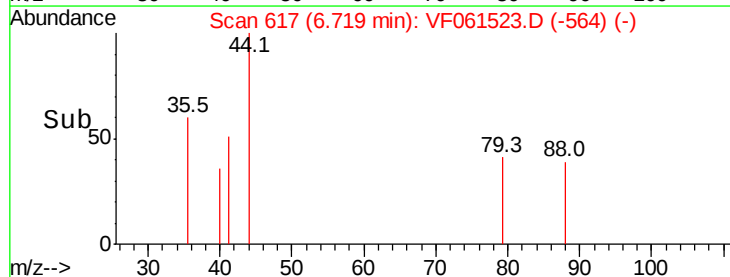
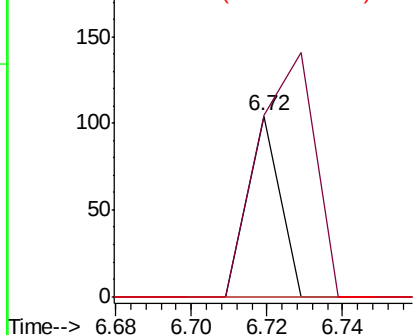


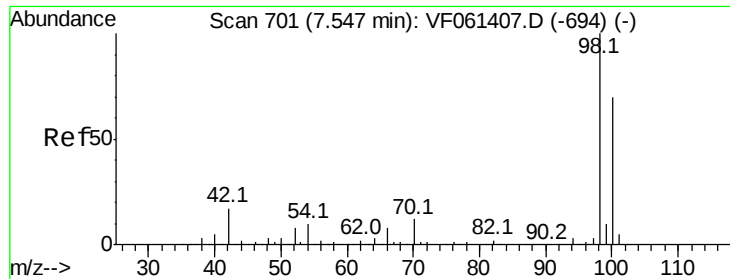
#49
 1,4-Dioxane
 Concen: Below Cal
 RT: 6.72 min Scan# 617
 Delta R.T. 0.02 min
 Lab File: VF061523.D
 Acq: 25 Jan 2019 16:21

Tgt Ion: 88 Resp: 62
 Ion Ratio Lower Upper
 88 100
 43 101.0 55.5 83.3#
 58 0.0 59.9 89.9#



Abundance Ion 88.00 (87.70 to 88.70): VF0
 Ion 43.00 (42.70 to 43.70): VF0
 Ion 58.00 (57.70 to 58.70): VF0





#50

Toluene-d8

Concen: 33.052 ug/l

RT: 7.56 min Scan# 702

Delta R.T. 0.01 min

Lab File: VF061523.D

Acq: 25 Jan 2019 16:21

Instrument :

MSVOA_F

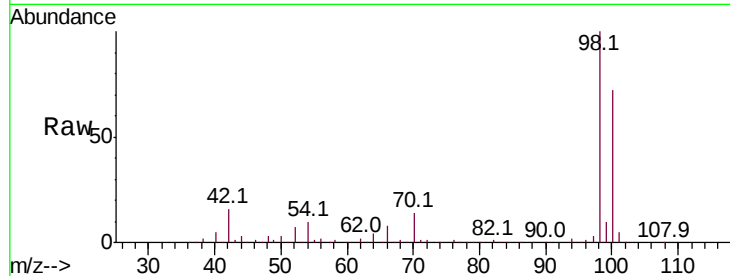
ClientSampled :

Tot Ion: 98 Resp: 283901

Ion Ratio Lower Upper

98 100

100 72.2 55.6 83.4



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF

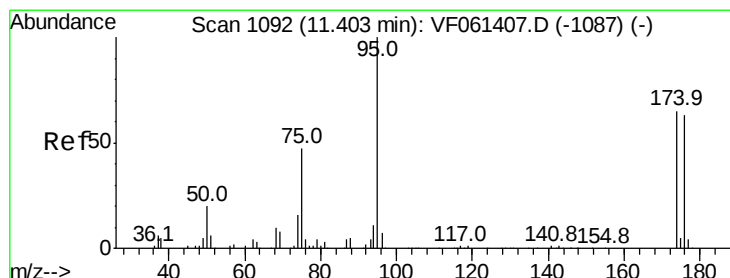
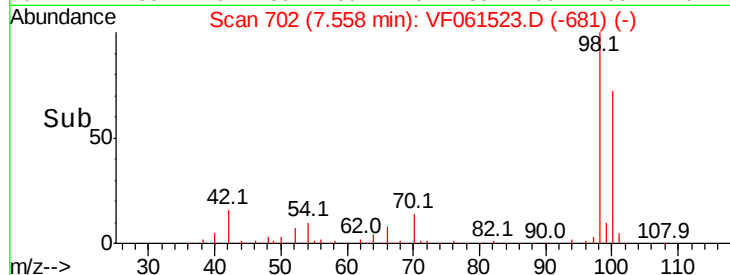
7.56

100000

50000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 33.186 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. 0.01 min

Lab File: VF061523.D

Acq: 25 Jan 2019 16:21

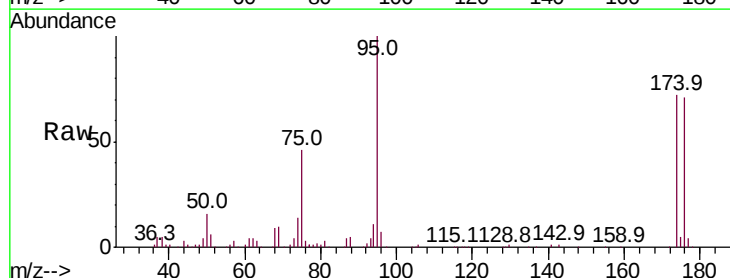
Tgt Ion: 95 Resp: 133184

Ion Ratio Lower Upper

95 100

174 71.9 0.0 130.4

176 71.5 0.0 126.2



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

100000

80000

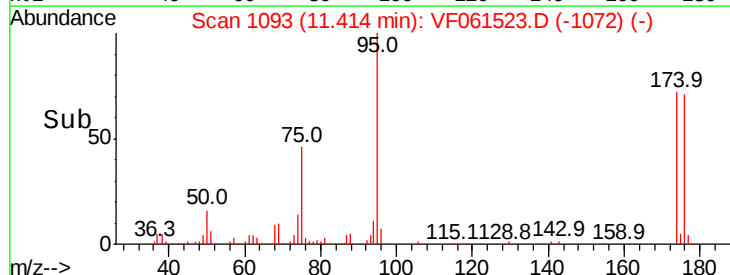
60000

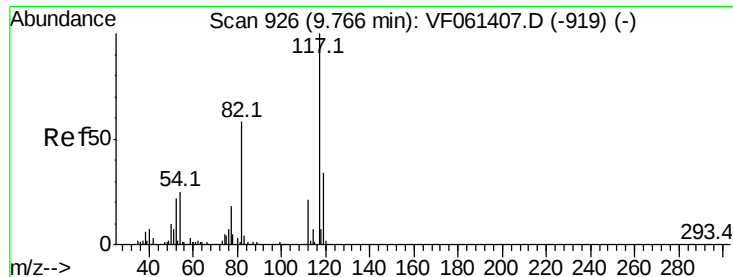
40000

20000

0

Time-->

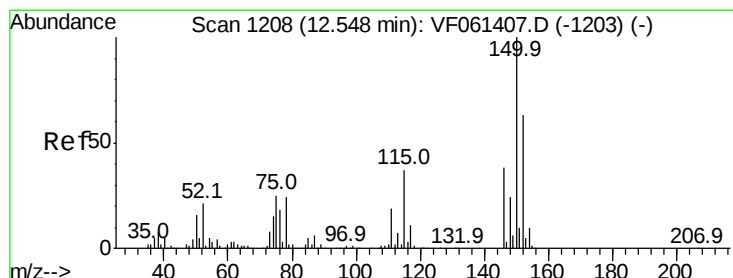
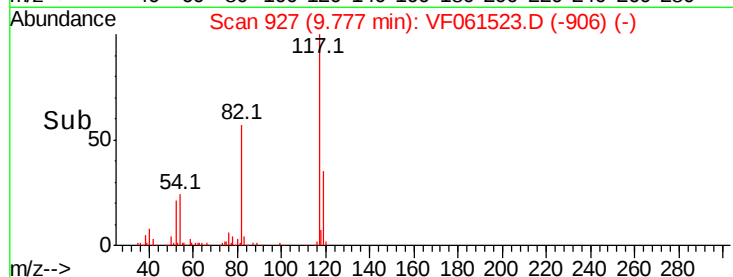
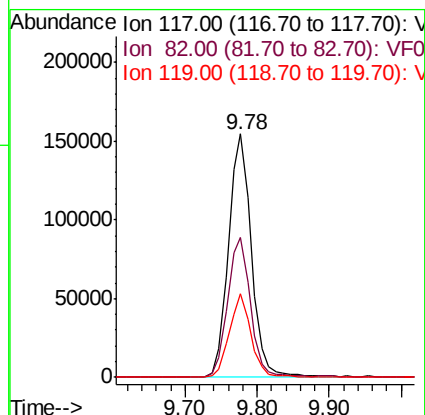
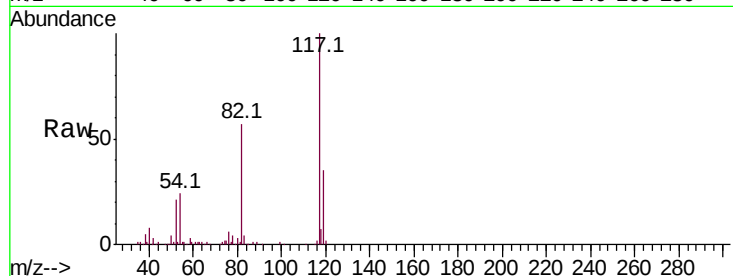




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.78 min Scan# 927
Delta R.T. 0.01 min
Lab File: VF061523.D
Acq: 25 Jan 2019 16:21

Instrument :
MSVOA_F
ClientSampled :

Tot Ion	Ratio	Lower	Upper
117	100		
82	57.4	46.4	69.6
119	34.5	27.2	40.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1208
Delta R.T. 0.00 min
Lab File: VF061523.D
Acq: 25 Jan 2019 16:21

Tgt Ion	Ratio	Lower	Upper
152	100		
115	63.9	30.0	90.0
150	162.4	0.0	321.4

